

Applicant : Ernest T. Tsui et al.
Serial No. : 10/038,860
Filed : December 31, 2001
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Attorney's Docket No.: 10559-561001 / P12581

Amendments to the Drawings:

Please substitute the enclosed 2 replacement sheets of formal drawings for the drawings presently in the application. The attached replacement sheets of formal drawings include changes to Fig. 2 as indicated in the annotated sheet of drawings that includes Fig. 2.

Attachments following last page of this Amendment:

Replacement Sheet (2 pages)
Annotated Sheet Showing Change(s) (1 page)

REMARKS

Claims 1-3, 5-13, and 15-20, are pending in the application, of which claims 1, 9, 15, and 18 are independent. Favorable reconsideration and further examination are respectfully requested.

Claim Amendments

Applicants acknowledge the allowability of claim 4. In response, Applicants amend claim 1 to include the limitations of claim 4 and cancel claim 4. In addition, Applicants acknowledge the allowability of claim 14. In response, Applicants amend claim 9 to include the limitations of claim 14 and cancel claim 14. The Applicants also amend claim 18 in a similar manner to the amendment of claim 9.

Drawings

The Examiner objects to the figures as being informal and hand drawn. In response, Applicants draw attention to the formal drawings filed on December 23, 2002.

The Examiner also objects to Fig. 2's omission of reference numerals. In response, Applicants amend Fig. 2 by adding reference numerals consistent with the corresponding discussion in the specification.

Abstract and Specification

The Examiner also objects to the abstract's use of acronyms and to typographical errors in the specification under 35 U.S.C. 112, first paragraph. In response, the Applicants amend the abstract to expand the acronyms and correct the typographical errors in the specification.

Section 112 rejection of claims

The Examiner rejects claims 3, 5-7, 11-13, 15-16, and 19-20 under 35 U.S.C. 112, first paragraph. In response, Applicants draw attention to selected paragraphs of the specification in which the claimed subject matter is described.

The limitation of “estimating an extent of an I/Q imbalance error comprises estimating a transmitted symbol corresponding to said received OFDM signal” is described, for example, between page 5, line 22 and page 6, line 15 of the application as originally filed. As described therein, the “extent of an I/Q imbalance error” is related to the relative positions of a received point **50** and a constellation point **52**. Accordingly, Applicants request reconsideration and withdrawal of the rejections under 35 U.S.C. § 112, first paragraph.

The limitation of “evaluating a first transformation on the basis of a first portion of a spectrum of said OFDM signal and evaluating a second transformation on the basis of a second portion of said spectrum” is described, for example, at page 8, lines 1-12 and shown in Fig. 4 of the application as originally filed. As shown in Fig. 4, first and second portions of a spectrum, $Y_m(k)$ and $Y_m(-k)$, are used as inputs to respective adaptive filters **62** and **64**. The outputs of the adaptive filters **62**, **64** correspond to the respective first and second transformations.

Accordingly, Applicants request reconsideration and withdrawal of the rejections under 35 U.S.C. § 112, first paragraph.

Summary

Now pending in this application are claims 1-3, 5-13, and 15-20, of which claims 1, 9, 15, and 18 are independent. No additional fees are believed to be due in connection with the filing


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of this response. However, to the extent fees are due, or if a refund is forthcoming, please adjust our deposit account 06-1050, referencing attorney docket number 10559-561001.

Respectfully submitted,

Date: 5-5-05


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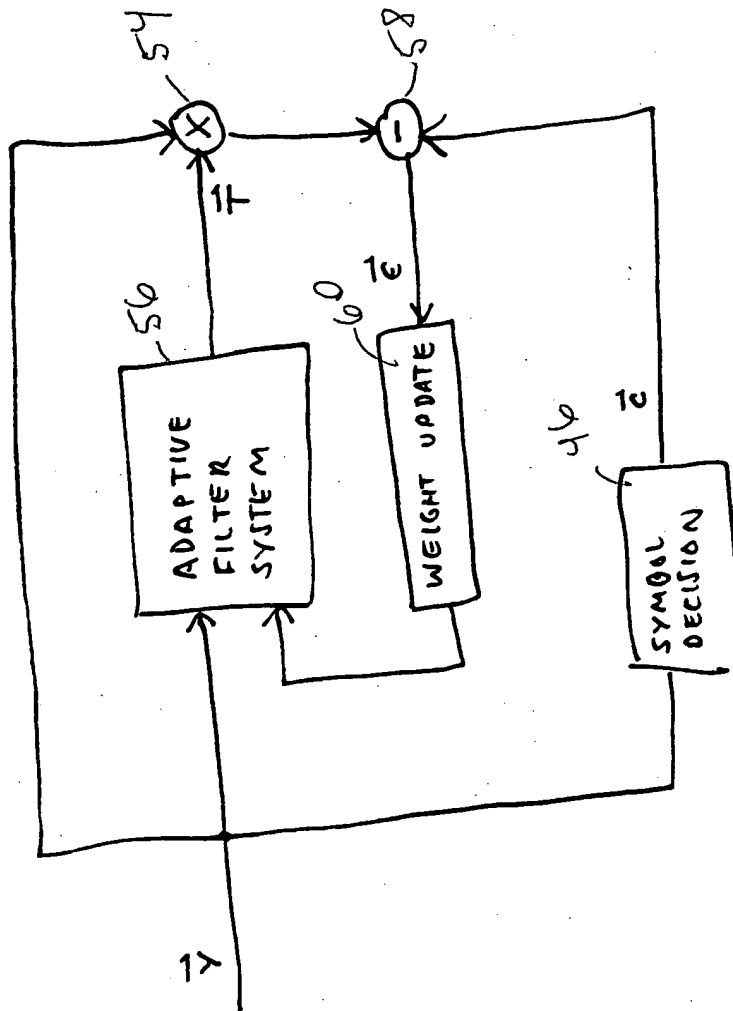


FIG. 2